

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A method for transferring files between a residential electronics device and a remote server, the method comprising the steps of:

establishing a proxy session between a file transfer protocol (FTP) client of the electronics device and a web proxy functional component module (FCM) over a single connection communications link;

establishing an FTP session between the web proxy FCM and the remote server over a dual connection communications link;

mapping messages between the FTP session and the proxy session such that the messages are transferred between the electronics device and the remote server, including using a non-HTTP proxy messaging structure to map command content and data content between the dual connection communications link and the single connection communications link by at least one of: (a) multiplexing FTP commands/replies and FTP data content into one message, thereby transferring the FTP commands/replies and the FTP data content between the FTP client and the proxy FCM in shared messages; or (b) mapping FTP messages into dedicated control messages containing control content for the FTP message, and dedicated data messages containing data contents for the FTP messages, thereby transferring the FTP commands/replies and the FTP data content between the FTP client and the proxy FCM in separate messages; and

registering the web proxy FCM with a home network including the electronics device through a registry service using a registration method comprising:

(a) providing one or more methods to access a specified registry system component, wherein the methods construct appropriate messages and send the messages to the registry system component;

(b) creating an attribute list containing a plurality of attributes describing the web proxy FCM in sufficient detail to allow the FTP client to find the web proxy FCM by specifying one of the attributes in a query; and

(c) registering the attribute list with the registry service.

2. (currently amended) The method of claim 1 further including the steps of:
defining ~~[[a]]~~the non-HTTP proxy messaging structure for the proxy session;
converting incoming FTP messages received from the FTP server into outgoing proxy messages having the proxy messaging structure; and
converting incoming proxy messages received from the FTP client into outgoing FTP messages, wherein the incoming proxy messages have the proxy messaging structure.

3. (original) The method of claim 2 further including the step of:
defining a shared messaging structure for the proxy session such that each proxy message includes a shared message having a control field and a data field;
said control field containing control content for a corresponding FTP message;
said data field containing data content for the corresponding FTP message.

4. (original) The method of claim 3 further including the step of defining the control field as being a message header of the shared message.

5. (original) The method of claim 3 further including the step of defining the data field as being a message body of the shared message.

6. (original) The method of claim 3 further including the step of defining the data field of the shared message to be empty when there is no data content for the corresponding FTP message.

7. (original) The method of claim 2 further including the step of:
defining a dedicated messaging structure for the proxy session such that each FTP message maps to a dedicated control message;
said dedicated control message containing control content for the FTP message.

8. (original) The method of claim 7 further including the step of mapping the FTP message to a dedicated data message such that the dedicated data message contains data content for the FTP message.

9. (canceled)

10. (cancelled)

11. (previously presented) The method of claim 1 further including the steps of:

receiving a network query for the web proxy FCM from the FTP client; and
activating a web agent for the FTP client.

12. (previously presented) The method of claim 1 further including the steps of:

establishing a control connection between the web proxy FCM and the remote server;

establishing a data connection between the web proxy and the remote server;
and

said web proxy being remotely located from the electronics device.

13-19. (cancelled)

20. (currently amended) A residential networking architecture comprising:

- an electronics device having a file transfer protocol (FTP) client;
- a web proxy functional component module (FCM) for maintaining a proxy session with the FTP client, the web proxy FCM further maintaining a file transfer protocol (FTP) session with a remote server over a dual connection communications link, wherein the web proxy FCM is registered with a home network including the electronics device, the registration including an attribute list containing a plurality of attributes describing the web proxy FCM in sufficient detail to allow the FTP client to find the web proxy FCM by specifying one of the attributes in a query, said web proxy FCM using a non-HTTP proxy messaging structure to map command content and data content between the dual connection communications link and the single connection communications link; and
- a serial bus network for providing a single communications link between the FTP client and the web proxy FCM.

21. (original) The networking architecture of claim 20 wherein the web proxy FCM includes:

- a lookup table containing a table of active web agents;
- a server module for maintaining the lookup table; and
- a helper module using the lookup table to generate responses to messages received from the proxy session and the FTP session.

22. (previously presented) The networking architecture of claim 21 wherein the web proxy FCM further includes a listening module, the listening module for receiving messages from the proxy session and the FTP session.

23. (previously presented) The networking architecture of claim 21 wherein the web proxy FCM further includes an identification module for allocating and de-allocating client identifiers.

24. (original) The networking architecture of claim 20 wherein the electronics device is a digital video disk machine.

25. (original) The networking architecture of claim 20 wherein the electronics device is a camcorder.

26. (original) The networking architecture of claim 20 wherein the electronics device is a microwave.

27. (cancelled)